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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/734,523	12/11/2000	Robert J. Collins	RS001US	4627

7590 11/19/2002

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EXAMINER

JONES, SCOTT E

ART UNIT	PAPER NUMBER
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3713

DATE MAILED: 11/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/734,523	<b>Applicant(s)</b> COLLINS, ROBERT J.	
	<b>Examiner</b> Scott E. Jones	<b>Art Unit</b> 3713	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133)
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 August 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 62-123 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 62-123 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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## DETAILED ACTION

### *Response to Amendment*

1. This office action is in response to the amendment filed on August 5, 2002 in which applicant cancels claims 1-61, adds claims 62-123, and responds to the claim rejections.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 62-64, 67-70, 87-89, and 92-95 are rejected under 35 U.S.C. 102(b) as being anticipated by Teder (U.S. 5,700,204).

The rejection as stated in Office Action, Paper No. 2, to claims 1-10, 22-31, and 43-50 is retained and incorporated herein to claims 62-64, 67-70, 87-89, and 92-95.

Additionally, applicant alleges, “Teder teaches the use of a single sensor or transmission path to determine movement characteristics of an object. Teder lacks teaching how multiple sensors/paths may be employed to generate a more accurate movement model.” However, applicant then admits, “Teder only mentions that multiple sensor can be used but does teach or suggest how to use the same to more accurately determine a movement characteristic.” The examiner believes applicant meant, “Teder only mentions that multiple sensor can be used but does not teach or suggest how to use the same to more accurately determine a movement characteristic.”

The examiner disagrees, the embodiment in Figure 16, described in Columns 20 and 21 clearly disclose multiple sensors are used to more accurately determine a movement characteristic of an object. Furthermore, Column 7, lines 37-43 state, "An alternative embodiment of the invention uses **multiple speed sensors**. In the alternative embodiment, the search algorithm determines the set of launch parameters that best account for the speed data acquired from all of the speed sensors. This results in a more highly constrained, and thus **more accurate**, solution." (**emphasis added**).

Applicant further alleges Teder requires the objects movement path to be curvilinear in order to attempt to determine a movement characteristic. However, the examiner disagrees and notes the golf ball trajectory (10) in Figure 16 is substantially non-curvilinear.

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 65-66, 71-86, 90-91, and 96-123 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teder (U.S. 5,700,204) in view of Chadwell (U.S. 5,662,533).

The rejection as stated in Office Action, Paper No. 2, to claims 11-21, 32-42, and 51-61 is retained and incorporated herein to claims 65-66, 71-86, 90-91, and 96-123.

#### ***Response to Arguments***

6. Applicant's arguments filed August 5, 2002 have been fully considered but they are not persuasive.

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7. For the reasons discussed hereinabove, the rejections as stated in Office Action, Paper No. 2 are maintained.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott E. Jones whose telephone number is (703) 308-7133. The examiner can normally be reached on Monday - Friday, 8:30 A.M. - 5:30 P.M..

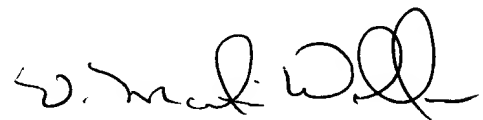
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on (703) 308-4119. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

SEJ

sej

November 13, 2002



VALENCIA MARTIN-WALLACE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700